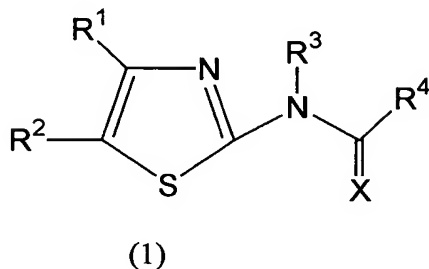


We claim:

1. The use as an insecticide and/or acaricide of a compound of formula (1):



wherein

R<sup>1</sup> is C<sub>2</sub>F<sub>5</sub>, n-C<sub>3</sub>F<sub>7</sub>, i-C<sub>3</sub>F<sub>7</sub>,

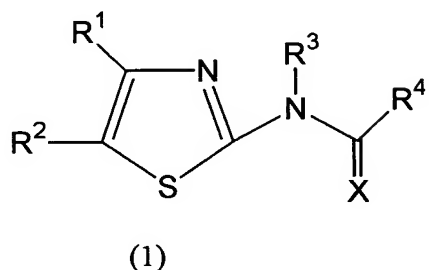
R<sup>2</sup> is H, halogen, cyano, alkoxycarbonyl, hydroxymethyl, haloalkyl, alkylthioalkyl, alkoxyalkyl, acyloxyalkyl, formyl, thiocyanatoalkyl, alkylsulfonyl, alkylthio, alkoxyiminomethyl, benzyloxyiminomethyl being optionally substituted by one or more of halogen, alkyl, alkoxy, cyano, nitro, vinyl being optionally substituted by one or more halogen, nitro or cyano, styryl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxycarbonylalkyl or alkoxycarbonylalkoxy, or phenyl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxycarbonylalkyl or alkoxycarbonylalkoxy; thiocyanatoalkyl,

R<sup>3</sup> is H, alkyl, alkoxyalkyl or alkoxy,

R<sup>4</sup> is aryl (especially phenyl, naphthyl, pyridinyl, pyrimidinyl, thienyl, furyl, thiazolyl, isothiazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiadiazolyl (1,2,4, and 1,3,4), oxadiazolyl (1,2,4- and 1,3,4); being optionally substituted by one or more of halogen, cyano, alkyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, or alkylsulfonyl, haloalkylsulfonyl), X is O, S or NR<sup>5</sup>, and

R<sup>5</sup> is alkyl, cycloalkyl, alkoxy, alkenylalkyloxy or alkynylalkyloxy.

2. The use of a composition comprising an insecticidally or acaricidally effective amount of a compound of formula (1)



wherein

$R^1$  is  $C_2F_5$ ,  $n-C_3F_7$ ,  $i-C_3F_7$ ,

$R^2$  is H, halogen, cyano, alkoxycarbonyl, hydroxymethyl, haloalkyl, alkylthioalkyl, alkoxyalkyl, acyloxyalkyl, formyl, thiocyanatoalkyl, alkylsulfonyl, alkylthio, alkoxyiminomethyl, benzyloxyiminomethyl being optionally substituted by one or more of halogen, alkyl, alkoxy, cyano, nitro, vinyl being optionally substituted by one or more halogen, nitro or cyano, styryl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxycarbonylalkyl or alkoxycarbonylalkoxy, or phenyl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxycarbonylalkyl or alkoxycarbonylalkoxy; thiocyanatoalkyl,

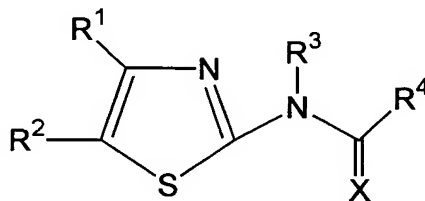
$R^3$  is H, alkyl, alkoxyalkyl or alkoxy,

$R^4$  is aryl (especially phenyl, naphthyl, pyridinyl, pyrimidinyl, thienyl, furyl, thiazolyl, isothiazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiadiazolyl (1,2,4, and 1,3,4), oxadiazolyl (1,2,4- and 1,3,4); being optionally substituted by one or more of halogen, cyano, alkyl, haloalkyl, alkoxy, nitro, alkoxycarbonyl, alkylcarbonyloxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, or alkylsulfonyl, haloalkylsulfonyl), X is O, S or  $NR^5$ , and

$R^5$  is alkyl, cycloalkyl, alkoxy, alkenylalkyloxy or alkynylalkyloxy; and

a carrier or diluent to combat and control insect pests at a locus.

3. A compound of formula (1):



(1)

wherein

R<sup>1</sup> is C<sub>2</sub>F<sub>5</sub>, n-C<sub>3</sub>F<sub>7</sub>, i-C<sub>3</sub>F<sub>7</sub>,

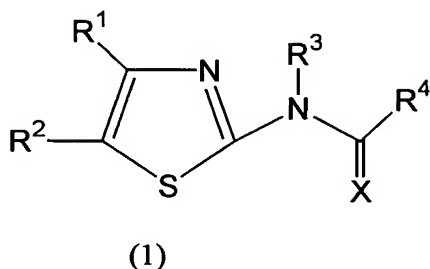
R<sup>2</sup> is H, halogen, cyano, alkoxy carbonyl, hydroxymethyl, haloalkyl, alkylthioalkyl, alkoxyalkyl, acyloxyalkyl, formyl, thiocyanatoalkyl, alkylsulfonyl, alkylthio, alkoxyiminomethyl, benzyloxyiminomethyl being optionally substituted by one or more of halogen, alkyl, alkoxy, cyano, nitro, vinyl being optionally substituted by one or more of halogen, nitro or cyano, styryl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxy carbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxy carbonylalkyl or alkoxy carbonylalkoxy, or phenyl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxy carbonyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxy carbonylalkyl or alkoxy carbonylalkoxy; thiocyanatoalkyl,

R<sup>3</sup> is H, alkyl, alkoxyalkyl or alkoxy,

R<sup>4</sup> is aryl (especially phenyl, naphthyl, pyridinyl, pyrimidinyl, thienyl, furyl, thiazolyl, isothiazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiadiazolyl (1,2,4, and 1,3,4), oxadiazolyl (1,2,4- and 1,3,4); being optionally substituted by one or more of halogen, cyano, alkyl, haloalkyl, alkoxy, nitro, alkoxy carbonyl, alkylcarbonyloxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, or alkylsulfonyl, haloalkylsulfonyl), X is O, S or NR<sup>5</sup>, and

R<sup>5</sup> is alkyl, cycloalkyl, alkoxy, alkenylalkyloxy or alkynylalkyloxy.

4. An insecticidal or acaricidal composition comprising a compound of formula (1):



wherein

$R^1$  is  $C_2F_5$ ,  $n-C_3F_7$ ,  $i-C_3F_7$ ,

$R^2$  is H, halogen, cyano, alkoxyacetyl, hydroxymethyl, haloalkyl, alkylthioalkyl, alkoxyalkyl, acyloxyalkyl, formyl, thiocyanatoalkyl, alkylsulfonyl, alkylthio, alkoxyiminomethyl, benzyloxyiminomethyl being optionally substituted by one or more of halogen, alkyl, alkoxy, cyano, nitro, vinyl being optionally substituted by one or more of halogen, nitro or cyano, styryl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxyacetyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxyacetylalkyl or alkoxyacetylalkoxy, or phenyl being optionally substituted by one or more of halogen, cyano, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, nitro, alkoxyacetyl, alkylcarbonyloxy, alkylenedioxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, alkylsulfonyl, haloalkenyl, alkoxyacetylalkyl or alkoxyacetylalkoxy; thiocyanatoalkyl,

$R^3$  is H, alkyl, alkoxyalkyl or alkoxy,

$R^4$  is aryl (especially phenyl, naphthyl, pyridinyl, pyrimidinyl, thienyl, furyl, thiazolyl, isothiazolyl, pyrazolyl, oxazolyl, isoxazolyl, thiadiazolyl (1,2,4, and 1,3,4), oxadiazolyl (1,2,4- and 1,3,4); being optionally substituted by one or more of halogen, cyano, alkyl, haloalkyl, alkoxy, nitro, alkoxyacetyl, alkylcarbonyloxy, alkylcarbonyl, amino, alkylamino, haloalkoxy, alkylthio, or alkylsulfonyl, haloalkylsulfonyl), X is O, S or  $NR^5$ , and

$R^5$  is alkyl, cycloalkyl, alkoxy, alkenylalkoxy or alkynylalkoxy.